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L Number	Hits	Search Text	DB	Time stamp
1	2	jp-10237130-\$.did.	JPO; DERWENT	2003/07/21 11:11
2	932	perfluoro\$4yl adj vinyl adj ether	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 15:31
3	678	perfluoro adj ((\$4yl adj vinyl) adj ether)	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 15:26
4	1552	(perfluoro\$4yl adj vinyl adj ether) (perfluoro adj ((\$4yl adj vinyl) adj ether))	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 11:14
5	85665	nitrile cyano propanenitrile	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 12:32
6	45	((perfluoro\$4yl adj vinyl adj ether) (perfluoro adj ((\$4yl adj vinyl) adj ether))) with (nitrile cyano propanenitrile)	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 11:15
7	233236	ammonia nh3 "nh.sub.3"	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 12:09
8	14	((perfluoro\$4yl adj vinyl adj ether) (perfluoro adj ((\$4yl adj vinyl) adj ether))) with (nitrile cyano propanenitrile) and (ammonia nh3 "nh.sub.3")	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 11:29
9	12	cnve!	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 11:30
10	7	cnve! not (((perfluoro\$4yl adj vinyl adj ether) (perfluoro adj ((\$4yl adj vinyl) adj ether))) with (nitrile cyano propanenitrile) and (ammonia nh3 "nh.sub.3"))	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 11:30
11	1	(ammonia nh3 "nh.sub.3") and (cnve! not (((perfluoro\$4yl adj vinyl adj ether) (perfluoro adj ((\$4yl adj vinyl) adj ether))) with (nitrile cyano propanenitrile) and (ammonia nh3 "nh.sub.3")))	US-PGPUB; EPO; JPO; DERWENT	2003/07/21 11:30
12	352	525/326.3	USPAT; US-PGPUB	2003/07/21 11:36
13	15	(ammonia nh3 "nh.sub.3") and 525/326.3	USPAT; US-PGPUB	2003/07/21 11:32
16	0	((ammonia nh3 "nh.sub.3") and ((525/326.3).CCLS.)) not ((ammonia nh3 "nh.sub.3") and 525/326.3)	USPAT; US-PGPUB	2003/07/21 11:36
14	266	(525/326.3).CCLS.	USPAT; US-PGPUB	2003/07/21 11:48
15	15	(ammonia nh3 "nh.sub.3") and ((525/326.3).CCLS.)	USPAT; US-PGPUB	2003/07/21 12:09
17	2	(("6221970") or ("6281296")).PN.	USPAT; US-PGPUB	2003/07/21 12:09
18	522705	ammonia nh3 "nh.sub.3"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 12:11
19	0	((perfluoro\$4yl adj vinyl adj ether) (perfluoro adj ((\$4yl adj vinyl) adj ether))) with (nitrile cyano propanenitrile) and (ammonia nh3 "nh.sub.3") not (((perfluoro\$4yl adj vinyl adj ether) (perfluoro adj ((\$4yl adj vinyl) adj ether))) with (nitrile cyano propanenitrile) and (ammonia nh3 "nh.sub.3"))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 12:10
20	122	((525/326.3).CCLS.) and (ammonia nh3 "nh.sub.3") not ((ammonia nh3 "nh.sub.3") and ((525/326.3).CCLS.))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 12:11

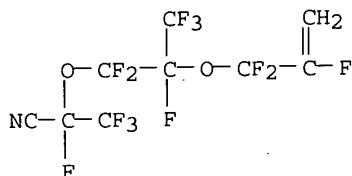
Search History 7/21/03 3:58:32 PM Page 1

C:\DOCS\East\workspaces\10030914 wsp

21	229488	ammonia nh3 "nh.sub.3"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 15:32
22	26	((525/326.3).CCLS.) and (ammonia nh3 "nh.sub.3") not ((ammonia nh3 "nh.sub.3") and ((525/326.3).CCLS.))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 12:31
24	177000	nitrile cyano propanenitrile cnve	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 12:33
25	16	((525/326.3).CCLS.) and (ammonia nh3 "nh.sub.3") not ((ammonia nh3 "nh.sub.3") and ((525/326.3).CCLS.))) and (nitrile cyano propanenitrile cnve)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 13:55
26	2	ep-969023-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 13:56
27	4	perfluoro adj ((\$4yl adj allyl) adj ether)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 15:30
30	9	perfluoro\$4yl adj allyl adj ether	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 15:31
32	12	(perfluoro adj ((\$4yl adj allyl) adj ether)) (perfluoro\$4yl adj allyl adj ether)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 15:32
33	2	(ammonia nh3 "nh.sub.3") and ((perfluoro adj ((\$4yl adj allyl) adj ether)) (perfluoro\$4yl adj allyl adj ether))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/07/21 15:32

> d 5 iall

L3 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2003 ACS on STN
RN 213013-74-2 REGISTRY
CN Propanenitrile, 2,3,3,3-tetrafluoro-2-[(1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C9 H2 F13 N O2
CI COM
SR CA
LC STN Files: CA, CAPLUS



micron

Calculated Properties (CALC)

PROPERTY (CODE)	VALUE	CONDITION	NOTE
Bioconc. Factor (BCF)	1000000.0	pH 1	(1) ACD
Bioconc. Factor (BCF)	1000000.0	pH 4	(1) ACD
Bioconc. Factor (BCF)	1000000.0	pH 7	(1) ACD
Bioconc. Factor (BCF)	1000000.0	pH 8	(1) ACD
Bioconc. Factor (BCF)	1000000.0	pH 10	(1) ACD
Boiling Point (BP)	217.4+/-35.0 deg C	760.0 Torr	(1) ACD
Enthalpy of Vap. (HVP)	45.38+/-3.0 kJ/mol		(1) ACD
Flash Point (FP)	85.3+/-46.7 deg C		(1) ACD
Freely Rotatable Bonds (FRB)	6		(1) ACD
H acceptors (HAC)	3		(1) ACD
H donors (HD)	0		(1) ACD
Koc (KOC)	10000000.0	pH 1	(1) ACD
Koc (KOC)	10000000.0	pH 4	(1) ACD
Koc (KOC)	10000000.0	pH 7	(1) ACD
Koc (KOC)	10000000.0	pH 8	(1) ACD
Koc (KOC)	10000000.0	pH 10	(1) ACD
logD (LOGD)	13.25	pH 1	(1) ACD
logD (LOGD)	13.25	pH 4	(1) ACD
logD (LOGD)	13.25	pH 7	(1) ACD
logD (LOGD)	13.25	pH 8	(1) ACD
logD (LOGD)	13.25	pH 10	(1) ACD
logP (LOGP)	13.254+/-0.998		(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 1	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 4	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 7	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 8	(1) ACD
Molar Solubility (SLB.MOL)	<0.01 mol/L	pH 10	(1) ACD
Molecular Weight (MW)	403.10		(1) ACD
Vapor Pressure (VP)	0.133077 Torr	25.0 deg C	(1) ACD

(1) Calculated using Advanced Chemistry Development (ACD) Software Solaris V4.76 ((C) 1994-2003 ACD)

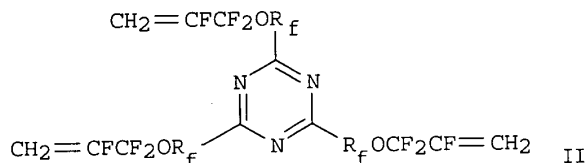
1 REFERENCES IN FILE CA (1947 TO DATE)
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 129:245662 CA
 TITLE: Fluorine-containing nitrile compounds and their polymers
 INVENTOR(S): Morita, Shigeru
 PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 INT. PATENT CLASSIF.:
 MAIN: C08F114-18
 SECONDARY: C07C255-13; C07D251-24; C08F290-06; C08F299-02
 CLASSIFICATION: 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 39
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10237130	A2	19980908	JP 1997-37489	19970221
PRIORITY APPLN. INFO.:			JP 1997-37489	19970221

GRAPHIC IMAGE:



ABSTRACT:

Title compds. with good storage stability and high polymn. activity having formula $\text{CH}_2:\text{CFCF}_2\text{O}(\text{CF}_2\text{O})_x(\text{CF}_2\text{CF}_2\text{O})_y(\text{CX}_{12}\text{CF}_2\text{CF}_2\text{O})_z(\text{CFX}_2\text{CF}_2\text{O})_w\text{CFX}_3\text{CN}$ (I; $\text{X}_1 = \text{H}, \text{F}, \text{Cl}$; $\text{X}_2 = \text{H}, \text{Cl}, \text{Me}, \text{CF}_3$; $\text{X}_3 = \text{H}, \text{F}, \text{Cl}, \text{CF}_3$; $x, y, z, w = 0-20, x + y + z + w \leq 20$) and polymers thereof with mol. wt. 1000-1,000,000 are claimed. Polyfunctional F-contg. triazines II [$\text{R}_f = (\text{CF}_2\text{O})_x(\text{CF}_2\text{CF}_2\text{O})_y(\text{CX}_{12}\text{CF}_2\text{CF}_2\text{O})_z(\text{CFX}_2\text{CF}_2\text{O})_w\text{CFX}_3$] as a result of trimerization of I, useful for crosslinking agents or vulcanizers, are also claimed. Thus, 50 g $\text{ICH}_2\text{CF}_2[\text{CF}_2\text{OCF}(\text{CF}_3)]_2\text{CN}$ was treated with 20 g powd. Zn in 10 mL DMF at 160.degree. to obtain $\text{CH}_2:\text{CF}[\text{CF}_2\text{OCF}(\text{CF}_3)]_2\text{CN}$, 5 g of which was polymd. in the presence of 0.5 g 8% $[\text{H}(\text{CF}_2\text{CF}_2)_3\text{CO}_2]_2\text{C}_2\text{F}_3\text{Cl}_3$ soln. at room temp. to give a polymer having repeating unit $\text{CH}_2\text{CF}[\text{CF}_2\text{OCF}(\text{CF}_3)]_2\text{CN}$ with no.-av. mol. wt. 35,000-48,000.

SUPPL. TERM: fluorine nitrile contg unsatd compd polymer; storage stability fluorine contg unsatd nitrile; polymn activity fluorine contg unsatd nitrile; polyfunctional fluorine contg triazine vulcanizer
 INDEX TERM: Fluoro rubber
 Fluoropolymers, preparation
 ROLE: IMF (Industrial manufacture); PREP (Preparation)
 (fluorine-contg. unsatd. nitriles with storage stability and high polymn. activity)
 INDEX TERM: Vulcanization accelerators and agents
 (fluorine-contg. unsatd. nitriles with storage stability for triazines as vulcanizers)
 INDEX TERM: 213013-74-2P 213013-75-3P 213013-76-4P 213013-77-5P
 213013-80-0P 213013-81-1P 213013-84-4P
 ROLE: IMF (Industrial manufacture); PREP (Preparation)
 (fluorine-contg. unsatd. nitriles with storage stability and high polymn. activity)
 INDEX TERM: 213013-91-3 213013-93-5
 ROLE: RCT (Reactant); RACT (Reactant or reagent)

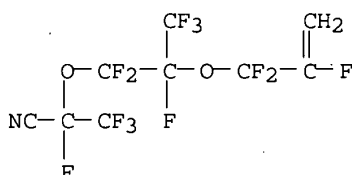
(fluorine-contg. unsatd nitriles with storage stability
and high polymn. activity from)
INDEX TERM: 213013-79-7P 213013-87-7P 213013-89-9P
ROLE: IMF (Industrial manufacture); PREP (Preparation)
(fluorine-contg. unsatd. nitriles with storage stability
for triazines)
INDEX TERM: 213013-78-6P
ROLE: IMF (Industrial manufacture); PREP (Preparation)
(rubber; fluorine-contg. unsatd. nitriles with storage
stability and high polymn. activity)
INDEX TERM: 86414-61-1P
ROLE: IMF (Industrial manufacture); POF (Polymer in
formulation); PREP (Preparation); USES (Uses)
(rubbers; fluorine-contg. unsatd. nitriles with storage
stability for triazines as vulcanizers)

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L3 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2003 ACS on STN
RN 213013-75-3 REGISTRY
CN Propanenitrile, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-
trifluoro-2-propenyl)oxy]propoxy]-, homopolymer (9CI) (CA INDEX NAME)
MF (C9 H2 F13 N O2)x
CI PMS
PCT Polyvinyl
SR CA
LC STN Files: CA, CAPLUS
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CM 1

CRN 213013-74-2

CMF C9 H2 F13 N O2



2 REFERENCES IN FILE CA (1947 TO DATE)

2 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 134:117018 CA
 TITLE: Curing method for functional fluoropolymers
 INVENTOR(S): Morita, Shigeru; Arase, Takuya; Shimizu, Tetsuo
 PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 INT. PATENT CLASSIF.:
 MAIN: C08J003-24
 SECONDARY: C08F016-24; C08L029-10
 CLASSIFICATION: 39-10 (Synthetic Elastomers and Natural Rubber)
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005881	A1	20010125	WO 2000-JP4698	20000713
W: US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2001026654	A2	20010130	JP 1999-200266	19990714
EP 1270649	A1	20030102	EP 2000-944428	20000713
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRIORITY APPLN. INFO.:			JP 1999-200266	19990714
			WO 2000-JP4698	20000713

ABSTRACT:

The fluoropolymers, having a structure of $[CXYC(RA)Z]_mMn$ (X, Y, Z = H, F, Cl, Br, I with at least one of them = F; R = O, Cl-20 alkylene; A = CN, NCO, COOR, anhydride, unsatd. hydroxaryl, R' = Cl-10 alkyl; M = copolymerizable monomer residue; m = 1-100 mol%, n = 0-99 mol%), are crosslinkable by NH₃, diamines, and/or polyols to form heat-resistant and transparent fluoropolymers. A perfluorohexane soln. contg. $[H(CF_2CF_2)_3COO]_2$ initiator and $CH_2:CF(CF_2CF_3)CF_2OCF(CF_3)CN$ was stirred at 20.degree. for 24 h to give a polymer (I) with glass-transition temp. of 7.5.degree.. A 10% I-contg.

C3HF5Cl2 soln. was cast on a plate, contacted with NH3 at room temp. to form a transparent and elastic film, which was heated at 250.degree. to form a triazine-contg. hard film with heat decompn. temp. of 302.1.degree..

SUPPL. TERM: heat resistance ammonia crosslinked fluoropropenyloxypropoxy propanenitrile polymer; transparency ammonia crosslinked fluoropropenyloxypropoxy propanenitrile polymer; amine crosslinking functional perfluoro unsatd ether polymer; polyol crosslinking functional perfluoro unsatd ether polymer

INDEX TERM: Vulcanization
(crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: Fluoro rubber
ROLE: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: Amines, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(diamines, crosslinker; crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: Transparent materials
(heat-resistant; crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: Alcohols, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(polyhydric, crosslinker; crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: Heat-resistant materials
(transparent; crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: 7664-41-7, Ammonia, reactions
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(crosslinkers; crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: 121-44-8, Triethylamine, uses
ROLE: CAT (Catalyst use); USES (Uses)
(crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: 213013-75-3P 321537-06-8P
ROLE: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

INDEX TERM: 32687-76-6
ROLE: CAT (Catalyst use); USES (Uses)
(polymn. initiator; crosslinking of functional perfluoro unsatd ether polymers with NH3 or diamines or polyols for high heat resistance)

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD.

REFERENCE(S): (1) Asahi Glass Co Ltd; JP 05230151 A 1993 CAPLUS
(2) Asahi Glass Co Ltd; JP 11302394 A 1999 CAPLUS
(3) Du Pont de Nemours & Co E I; JP 200034382 A
(4) Du Pont de Nemours & Co E I; EP 969023 A 2000 CAPLUS
(5) E I Du Pont de Nemours And Company; CA 2001424 A CAPLUS

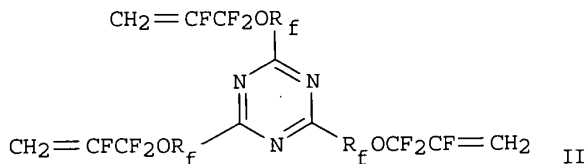
- (6) E I Du Pont de Nemours And Company; EP 424555 B CAPLUS
- (7) E I Du Pont de Nemours And Company; US 4983680 A CAPLUS
- (8) E I Du Pont de Nemours And Company; EP 532714 B CAPLUS
- (9) E I Du Pont de Nemours And Company; DE 68912128 T2
- (10) E I Du Pont de Nemours And Company; DE 69029951 T2
- (11) E I Du Pont de Nemours And Company; WO 9118930 A CAPLUS
- (12) E I Du Pont de Nemours And Company; JP 03172311 A 1991
CAPLUS
- (13) E I Du Pont de Nemours And Company; JP 05502899 A 1993
- (14) E I Du Pont de Nemours And Company; JP 10110079 A 1998
CAPLUS
- (15) Ei Du Pont de Nemours & Co; EP 110420 B CAPLUS
- (16) Ei Du Pont de Nemours & Co; CA 1213390 A CAPLUS
- (17) Ei Du Pont de Nemours & Co; US 4525539 A CAPLUS
- (18) Ei Du Pont de Nemours & Co; JP 59109546 A 1984 CAPLUS
- (19) Nippon Mektron K K; CN 1128255 A CAPLUS
- (20) Nippon Mektron K K; US 5605973 A CAPLUS
- (21) Nippon Mektron K K; US 5621145 A CAPLUS
- (22) Nippon Mektron K K; US 5700879 A CAPLUS
- (23) Nippon Mektron K K; DE 69504266 T2
- (24) Nippon Mektron K K; DE 69509186 T2
- (25) Nippon Mektron K K; DE 69602047 T2
- (26) Nippon Mektron K K; EP 708084 B CAPLUS
- (27) Nippon Mektron K K; EP 708140 B CAPLUS
- (28) Nippon Mektron K K; EP 727413 B CAPLUS
- (29) Nippon Mektron K K; JP 08119926 A 1996 CAPLUS
- (30) Nippon Mektron K K; JP 08120146 A 1996 CAPLUS
- (31) Nippon Mektron K K; JP 08217742 A 1996 CAPLUS

REFERENCE 2

ACCESSION NUMBER: 129:245662 CA
 TITLE: Fluorine-containing nitrile compounds and their polymers
 INVENTOR(S): Morita, Shigeru
 PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 INT. PATENT CLASSIF.:
 MAIN: C08F114-18
 SECONDARY: C07C255-13; C07D251-24; C08F290-06; C08F299-02
 CLASSIFICATION: 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 39
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10237130	A2	19980908	JP 1997-37489	19970221
PRIORITY APPLN. INFO.:			JP 1997-37489	19970221

GRAPHIC IMAGE:



ABSTRACT:

trile compds. with good storage stability and high polymn. activity having formula $\text{CH}_2:\text{CFCF}_2\text{O}(\text{CF}_2\text{O})_x(\text{CF}_2\text{CF}_2\text{O})_y(\text{CX}_{12}\text{CF}_2\text{CF}_2\text{O})_z(\text{CFX}_2\text{CF}_2\text{O})_w\text{CFX}_3\text{CN}$ (I; $X_1 = \text{H, F, Cl}$; $X_2 = \text{H, Cl, Me, CF}_3$; $X_3 = \text{H, F, Cl, CF}_3$; $x, y, z, w = 0-20, x + y + z + w \leq 20$) and polymers thereof with mol. wt. 1000-1,000,000 are claimed. Polyfunctional F-contg. triazines II [$\text{Rf} = (\text{CF}_2\text{O})_x(\text{CF}_2\text{CF}_2\text{O})_y(\text{CX}_{12}\text{CF}_2\text{CF}_2\text{O})_z(\text{CFX}_2\text{CF}_2\text{O})_w\text{CFX}_3$] as a result of trimerization of I, useful for crosslinking agents or vulcanizers, are also claimed. Thus, 50 g $\text{ICH}_2\text{CF}_2[\text{CF}_2\text{OCF}(\text{CF}_3)]_2\text{CN}$ was treated with 20 g powd. Zn in 10 mL DMF at 160.degree. to obtain $\text{CH}_2:\text{CF}[\text{CF}_2\text{OCF}(\text{CF}_3)]_2\text{CN}$, 5 g of which was polymd. in the presence of 0.5 g 8% $[\text{H}(\text{CF}_2\text{CF}_2)_3\text{CO}_2]_2\text{C}_2\text{F}_3\text{Cl}_3$ soln. at room temp. to give a polymer having repeating unit $\text{CH}_2\text{CF}[\text{CF}_2\text{OCF}(\text{CF}_3)]_2\text{CN}$ with no.-av. mol. wt. 35,000-48,000.

SUPPL. TERM: fluorine nitrile contg unsatd compd polymer; storage stability fluorine contg unsatd nitrile; polymn activity fluorine contg unsatd nitrile; polyfunctional fluorine contg triazine vulcanizer

INDEX TERM: Fluoro rubber
Fluoropolymers, preparation

ROLE: IMF (Industrial manufacture); PREP (Preparation)
(fluorine-contg. unsatd. nitriles with storage stability and high polymn. activity)

INDEX TERM: Vulcanization accelerators and agents
(fluorine-contg. unsatd. nitriles with storage stability for triazines as vulcanizers)

INDEX TERM: 213013-74-2P 213013-75-3P 213013-76-4P 213013-77-5P
213013-80-0P 213013-81-1P 213013-84-4P

ROLE: IMF (Industrial manufacture); PREP (Preparation)
(fluorine-contg. unsatd. nitriles with storage stability and high polymn. activity)

INDEX TERM: 213013-91-3 213013-93-5

ROLE: RCT (Reactant); RACT (Reactant or reagent)
(fluorine-contg. unsatd. nitriles with storage stability and high polymn. activity from)

INDEX TERM: 213013-79-7P 213013-87-7P 213013-89-9P

ROLE: IMF (Industrial manufacture); PREP (Preparation)
(fluorine-contg. unsatd. nitriles with storage stability for triazines)

INDEX TERM: 213013-78-6P

ROLE: IMF (Industrial manufacture); PREP (Preparation)
(rubber; fluorine-contg. unsatd. nitriles with storage stability and high polymn. activity)

INDEX TERM: 86414-61-1P

ROLE: IMF (Industrial manufacture); POF (Polymer in formulation); PREP (Preparation); USES (Uses)
(rubbers; fluorine-contg. unsatd. nitriles with storage stability for triazines as vulcanizers)

```

-> e c9h2f13no2
E1      3      C9H2F13N3O2/BI
E2      1      C9H2F13N3OS/BI
E3      5 --> C9H2F13NO2/BI
E4      9      C9H2F13NO3/BI
E5      1      C9H2F13NOS/BI
E6      1      C9H2F13NS2/BI
E7      3      C9H2F14/BI
E8      1      C9H2F14INO2/BI
E9      1      C9H2F14N2S/BI
E10     1      C9H2F14N4/BI
E11     1      C9H2F14N4O2S/BI
E12     8      C9H2F14O2/BI

```

=> s e3

L3 5 C9H2F13NO2/BI

=> d cn str 1-

YOU HAVE REQUESTED DATA FROM 5 ANSWERS - CONTINUE? Y/(N):Y

L3 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2003 ACS on STN

CN Propanenitrile, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]-, polymer with 1-[1-[difluoro[(trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propane and tetrafluoroethene (9CI) (CA INDEX NAME)

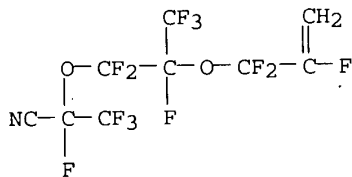
copy

OTHER CA INDEX NAMES:

CN Ethene, tetrafluoro-, polymer with 1-[1-[difluoro[(trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propane and 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]propanenitrile (9CI)

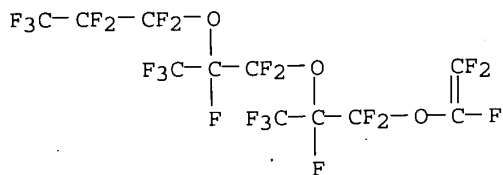
CN Propane, 1-[1-[difluoro[(trifluoroethenyl)oxy]methyl]-1,2,2,2-tetrafluoroethoxy]-1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)-, polymer with tetrafluoroethene and 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]propanenitrile (9CI)

CM 1

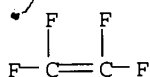


Copy

CM 2



CM 3



L3 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2003 ACS on STN

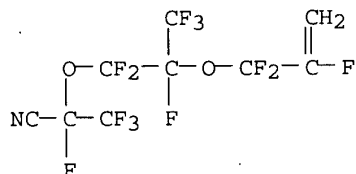
CN Propanenitrile, 2,3,3,3-tetrafluoro-2-[(1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]-, polymer with tetrafluoroethene (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

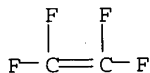
CN Ethene, tetrafluoro-, polymer with 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]propanenitrile (9CI)

CM 1

QFE COR



CM 2



L3 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2003 ACS on STN

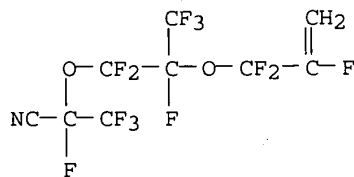
CN Propanenitrile, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]-, polymer with 1,1-difluoroethene (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethene, 1,1-difluoro-, polymer with 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]propanenitrile (9CI)

CM 1

QFE COR



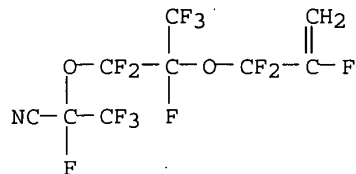
CM 2



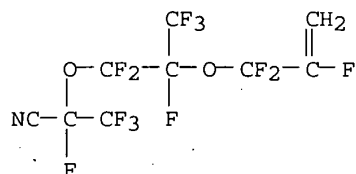


L3 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2003 ACS on STN
 CN Propanenitrile, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1



L3 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2003 ACS on STN
 CN Propanenitrile, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[(1,1,2-trifluoro-2-propenyl)oxy]propoxy]- (9CI) (CA INDEX NAME)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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